

We Claim:

- Sub
A,
1. An apparatus for collecting optically sorted particles comprising:
a first surface adapted to support a plurality of particles,
an optical illumination system for subjecting the particles to a moving gradient
5 force to cause the separation of the particles from the first surface, and
a second adhesive surface for adhering the separated particles to the second
surface.
 - 10 2. The apparatus of claim 1 wherein the adhesive surface has a specific
affinity.
 3. The apparatus of claim 1 wherein the adhesive surface has a non-specific
affinity.
 - 15 4. The apparatus of claim 1 wherein the first surface is planar.
 5. The apparatus of claim 1 wherein the first surface is parallel to the second
surface.
 - 20 6. The apparatus of claim 1 wherein the first surface comprises a glass slide.
 7. The apparatus of claim 1 wherein the first and second surfaces define a
volume therebetween.
 - 25 8. The apparatus of claim 7 wherein the volume includes a fluid.
 9. The apparatus of claim 8 wherein the fluid has an index of refraction which
is between the indices of refraction of the particles.

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